Author Index

Agalidis, I., see Nitschke, W. (1100) 49
Allen, J.F., see Harrison, M.A. (1100) 83
Ameyibor, E., see Hirasawa, M. (1100) 105
Ananyev, G., Wydrzynski, T., Renger, G. and Klimov, V.
Transient peroxide formation by the manganese-containing, redox-active donor side of Photosystem II upon inhibition of O_2 evolution with lauroylcholine chloride (1100) 303
Andersson, B., see Nilsson, F. (1100) 251
Andersson, B., see Van Wijk, K.J. (1100) 207
Andréasson, L.-E. and Lindberg, K.
The inhibition of photosynthetic oxygen evolution by ammonia probed by EPR (1100) 177
Antalík, M., Bona, M., Gažová, Z. and Kuchár, A.
Spectrophotometric detection of the interaction between cytochrome *c* and heparin (1100) 155

Beatty, J.T., see Lilburn, T.G. (1100) 160
Berden, J.A., see Hartog, A.F. (1100) 267
Bingham, S.J., see Monkara, F. (1100) 184
Boekema, E.J., see Böttcher, B. (1100) 125
Bona, M., see Antalík, M. (1100) 155
Böttcher, B., Gräber, P. and Boekema, E.J.
The structure of Photosystem I from the thermophilic cyanobacterium *Synechococcus* sp. determined by electron microscopy of two-dimensional crystals (1100) 125
Braun, G., Driesenaar, A.R.J., Malkin, S. and Trebst, A.
A new way to monitor by-pass restorations of electron transport in inhibited chloroplasts by cyclic electron flow cofactors – A study by modulated fluorimetry (1100) 58
Brown, S., see Mitchell, R. (1100) 40
Bruce, D. and Salehian, O.
Laser-induced optoacoustic calorimetry of cyanobacteria. The efficiency of primary photosynthetic processes in state 1 and state 2 (1100) 242
Bullerjahn, G.S., see Post, A.F. (1100) 75

Calkoen, F., see Visschers, R.W. (1100) 259
Cao, J., see Wang, X. (1100) 1
Clark, J.F., Khuchua, Z. and Ventura-Clapier, R.
Creatine kinase binding and possible role in chemically skinned guinea-pig taenia coli (1100) 137
Conrad, A., see Soboll, S. (1100) 27
Cortese, J.D., Voglino, A.L. and Hackenbrock, C.R.
The ionic strength of the intermembrane space of intact mitochondria is not affected by the pH or volume of the intermembrane space (1100) 189
Crielaard, W., Van Mourik, F., Van Grondelle, R., Konings, W.N. and Hellingwerf, K.J.
Spectral identification of the electrochromically active carotenoids of *Rhodobacter sphaeroides* in chromatophores and reconstituted liposomes (1100) 9
Cunningham, I.J., Williams, R., Palmer, T., Thomas, C.M. and Jackson, J.B.
The relation between the soluble factor associated with H^+-transhydrogenase of *Rhodospirillum rubrum* and the enzyme from mitochondria and *Escherichia coli* (1100) 332

Dadak, V., Vanderkooi, J.M. and Wright, W.W.
Electron transfer from excited tryptophan to cytochrome *c*: mechanism of phosphorescence quenching? (1100) 33
Driesenaar, A.R.J., see Braun, G. (1100) 58
Dupont, Y., see Moutin, M.-J. (1100) 321

Edel, C.M., see Hartog, A.F. (1100) 267
Ehrenheim, A.M., Vianelli, A., Finazzi, G. and Forti, G.
Regulation by localized protons of Photosystem II photochemical efficiency (1100) 299

Finazzi, G., see Ehrenheim, A.M. (1100) 299
Finkele, U., see Wang, X. (1100) 1
Forti, G., see Ehrenheim, A.M. (1100) 299

Gal, A., see Post, A.F. (1100) 75
Gažová, Z., see Antalík, M. (1100) 155
Gellerich, F.N., see Kunz, W.S. (1100) 329
Gietl, C.
Malate dehydrogenase isoenzymes: Cellular locations and role in the flow of metabolites between the cytoplasm and cell organelles (1100) 217
Gounaris, K., see Nilsson, F. (1100) 251
Gounaris, K., see Williams, W.P. (1100) 92
Govindjee, see Wang, X. (1100) 1
Gräber, P., see Böttcher, B. (1100) 125

Hackenbrock, C.R., see Cortese, J.D. (1100) 189
Haith, C.E., see Lilburn, T.G. (1100) 160
Hardin, C.D., see Skubatz, H. (1100) 98
Harrison, M.A., Melis, A. and Allen, J.F.
Restoration of irradiance-stressed *Dunaliella salina* (green alga) to physiological growth conditions: changes in antenna size and composition of Photosystem II (1100) 83
Harrison, M.A., see Melis, A. (1100) 312
Hartog, A.F., Edel, C.M., Lubbers, F.B. and Berden, J.A.
Characteristics of the non-exchangeable nucleotide binding sites of mitochondrial F_1 revealed by dissociation and reconstitution with 2-azido-ATP (1100) 267
Hebisch, S., see Soboll, S. (1100) 27
Hellingwerf, K.J., see Crielaard, W. (1100) 9
Hirasawa, M., Robertson, D.E., Ameyibor, E., Johnson, M.K. and Knaff, D.B.
Oxidation-reduction properties of the ferredoxin-linked glutamate synthase from spinach leaf (1100) 105
Hope, A.B., Huilgol, R.R., Panizza, M., Thompson, M. and Matthews, D.B.
The flash-induced turnover of cytochrome *b*-563, cytochrome *f* and plastocyanin in chloroplasts. Models and estimation of kinetic parameters (1100) 15
Huilgol, R.R., see Hope, A.B. (1100) 15
Hunter, C.N., see Visschers, R.W. (1100) 259

Itoh, S., see Iwaki, M. (1100) 278
Iwaki, M., Mimuro, M. and Itoh, S.
Fluorescence of P700 and antenna chlorophylls in Photosystem I particles that contain 11 chlorophylls/P700 (1100) 278

Jackson, J.B., see Cunningham, I.J. (1100) 332
Johnson, M.K., see Hirasawa, M. (1100) 105
Jung, C., see Nölting, B. (1100) 171

Kadir, F.H.A., see Monkara, F. (1100) 184
Keller, M., see Soboll, S. (1100) 27
Khuchua, Z., see Clark, J.F. (1100) 137
Klimov, V., see Ananyev, G. (1100) 303
Knaff, D.B., see Hirasawa, M. (1100) 105
Konings, W.N., see Crielaard, W. (1100) 9
Krinelke, L., see Kunz, W.S. (1100) 329
Kuchár, A., see Antalík, M. (1100) 155
Kunz, W.S., Krinelke, L. and Gellerich, F.N.
Glutamine affects glutamate metabolism in isolated rat kidney cortex mitochondria (1100) 329
Kushmerick, M.J., see Skubatz, H. (1100) 98

Lauterwasse, C., see Wang, X. (1100) 1
Lilburn, T.G., Haith, C.E., Prince, R.C. and Beatty, J.T.
Pleiotropic effects of *pufX* gene deletion on the structure and function of the photosynthetic apparatus of *Rhodobacter capsulatus* (1100) 160
Lindberg, K., see Andréasson, L.-E. (1100) 177
Littarru, G.P., see Mordente, A. (1100) 235
Lubbers, F.B., see Hartog, A.F. (1100) 267

Malkin, S., see Braun, G. (1100) 58
Maróti, P., see Wang, X. (1100) 1
Martorana, G.E., see Mordente, A. (1100) 235
Matthews, D.B., see Hope, A.B. (1100) 15
McEwan, A.G., see Monkara, F. (1100) 184
Meeuse, B.J.D., see Skubatz, H. (1100) 98
Meinhardt, S.W. and Ohnishi, T.
Determination of the position of the Q_i^- quinone binding site from the protein surface of the cytochrome bc_1 complex in *Rhodobacter capsulates* chromatophores (1100) 67
Melis, A., Nemson, J.A. and Harrison, M.A.
Damage to functional components and partial degradation of Photosystem II reaction center proteins upon chloroplast exposure to ultraviolet-B radiation (1100) 312
Melis, A., see Harrison, M.A. (1100) 83
Meucci, E., see Mordente, A. (1100) 235
Miki-Noumura, T., see Niino, Y. (1100) 146
Milbauer, K.M., see Post, A.F. (1100) 75
Mimuro, M., see Iwaki, M. (1100) 278
Mitchell, P., see Mitchell, R. (1100) 40
Mitchell, R., Brown, S., Mitchell, P. and Rich, P.R.
Rates of cyanide binding to the catalytic intermediates of mammalian cytochrome *c* oxidase, and the effects of cytochrome *c* and poly(L-lysine) (1100) 40
Monkara, F., Bingham, S.J., Kadir, F.H.A., McEwan, A.G., Thomson, A.J., Thurgood, A.G.P. and Moore, G.R.
Spectroscopic studies of *Rhodobacter capsulatus* cytochrome *c'* in the isolated state and in intact cells (1100) 184
Moore, G.R., see Monkara, F. (1100) 184
Mordente, A., Martorana, G.E., Meucci, E., Santini, S.A. and Littarru, G.P.
Enzyme inactivation by metal-catalyzed oxidation of coenzyme Q_1 (1100) 235
Mori, H. and Yamamoto, Y.
Deletion of antenna chlorophyll-*a*-binding proteins CP43 and CP47 by Tris-treatment of PS II membranes in weak light: Evidence for a photo-degradative effect on the PS II components other than the reaction center-binding proteins (1100) 293
Moutin, M.-J., Rapin, C. and Dupont, Y.
Ruthenium red affects the intrinsic fluorescence of the calcium-ATPase of skeletal sarcoplasmic reticulum (1100) 321
Mullineaux, C.W.
Excitation energy transfer from phycobilisomes to Photosystem I in a cyanobacterium (1100) 285

Nelson, N.
Evolution of organellar proton-ATPases (1100) 109
Nemson, J.A., see Melis, A. (1100) 312
Niino, Y. and Miki-Noumura, T.
ATPase sites in two-headed fragment of *Tetrahymena* 22S ciliary dynein (1100) 146
Nilsson, F., Gounaris, K., Styring, S. and Andersson, B.
Isolation and characterization of oxygen-evolving Photosystem II membranes from the cyanobacterium *Synechocystis* 6803 (1100) 251
Nitschke, W., Agalidis, I. and Rutherford, A.W.
The reaction-centre associated cytochrome subunit of the purple bacterium *Rhodocyclus gelatinosus* (1100) 49
Nölting, B., Jung, C. and Snatzke, G.
Multichannel circular dichroism investigations of the structural stability of bacterial cytochrome *P*-450 (1100) 171
Nunn, R., see Visschers, R.W. (1100) 259

Oesterhelt, D., see Wang, X. (1100) 1
Ohad, I., see Post, A.F. (1100) 75
Ohnishi, T., see Meinhardt, S.W. (1100) 67

Palmer, T., see Cunningham, I.J. (1100) 332
Panizza, M., see Hope, A.B. (1100) 15
Post, A.F., Gal, A., Ohad, I., Milbauer, K.M. and Bullerjahn, G.S.
Characterization of light-activated reversible phosphorylation of a chlorophyll *a/b* antenna apoprotein in the photosynthetic prokaryote *Prochlorothrix hollandica* (1100) 75
Prince, R.C., see Lilburn, T.G. (1100) 160

Rapin, C., see Moutin, M.-J. (1100) 321
Renger, G., see Ananyev, G. (1100) 303
Rice, D.W., see Visschers, R.W. (1100) 259
Rich, P.R., see Mitchell, R. (1100) 40
Robertson, D.E., see Hirasawa, M. (1100) 105
Rutherford, A.W., see Nitschke, W. (1100) 49
Rutherford, A.W., see Van Mieghem, F.J.E. (1100) 198

Salehian, O., see Bruce, D. (1100) 242
Santini, S.A., see Mordente, A. (1100) 235
Schaafsma, T.J., see Van Mieghem, F.J.E. (1100) 198
Searle, G.F.W., see Van Mieghem, F.J.E. (1100) 198
Skubatz, H., Hardin, C.D., Wiseman, R.W., Meeuse, B.J.D. and Kushmerick, M.J.
The energetic state of the thermogenic appendix of the voodoo lily inflorescence. A ^{31}P-NMR study (1100) 98
Snatzke, G., see Nölting, B. (1100) 171
Soboll, S., Conrad, A., Keller, M. and Hebisch, S.
The role of the mitochondrial creatine kinase system for myocardial function during ischemia and reperfusion (1100) 27
Stilz, H.U., see Wang, X. (1100) 1
Styring, S., see Nilsson, F. (1100) 251
Styring, S., see Van Wijk, K.J. (1100) 207

Thomas, C.M., see Cunningham, I.J. (1100) 332
Thompson, M., see Hope, A.B. (1100) 15
Thomson, A.J., see Monkara, F. (1100) 184
Thurgood, A.G.P., see Monkara, F. (1100) 184
Trebst, A., see Braun, G. (1100) 58

Vanderkooi, J.M., see Dadak, V. (1100) 33
Van Grondelle, R., see Crielaard, W. (1100) 9
Van Grondelle, R., see Visschers, R.W. (1100) 259

Van Mieghem, F.J.E., Searle, G.F.W., Rutherford, A.W. and Schaafsma, T.J.
The influence of the double reduction of Q_A on the fluorescence decay kinetics of Photosystem II (1100) 198
Van Mourik, F., see Crielaard, W. (1100) 9
Van Mourik, F., see Visschers, R.W. (1100) 259
Van Wijk, K.J., Andersson, B. and Styring, S.
Spectroscopic characterization of photoinhibited Photosystem II and kinetic resolution of the triggering of the D_1 reaction center protein for degradation (1100) 207
Ventura-Clapier, R., see Clark, J.F. (1100) 137
Vianelli, A., see Ehrenheim, A.M. (1100) 299
Visschers, R.W., Nunn, R., Calkoen, F., Van Mourik, F., Hunter, C.N., Rice, D.W. and Van Grondelle, R.
Spectroscopic characterization of B820 subunits from light-harvesting complex I of *Rhodospirillum rubrum* and *Rhodobacter sphaeroides* prepared with the detergent *n*-octyl-*rac*-2,3-dipropylsulfoxide (1100) 259
Voglino, A.L., see Cortese, J.D. (1100) 189

Wang, X., Cao, J., Maróti, P., Stilz, H.U., Finkele, U., Lauterwasse, C., Zinth, W., Oesterhelt, D., Govindjee and Wraight, C.A.
Is bicarbonate in Photosystem II the equivalent of the glutamate ligand to the iron atom in bacterial reaction centers? (1100) 1
Williams, R., see Cunningham, I.J. (1100) 332
Williams, W.P. and Gounaris, K.
Stabilisation of PS-II-mediated electron transport in oxygen-evolving PS II core preparations by the addition of compatible co-solutes (1100) 92
Wiseman, R.W., see Skubatz, H. (1100) 98
Wraight, C.A., see Wang, X. (1100) 1
Wright, W.W., see Dadak, V. (1100) 33
Wydrzynski, T., see Ananyev, G. (1100) 303

Yamamoto, Y., see Mori, H. (1100) 293

Zinth, W., see Wang, X. (1100) 1